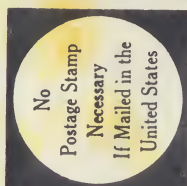


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low noise,

microvolt signal processing

Instruments developed for infrared technology created this line—suitable wherever low noise characteristics are vital. Example: IRI's microvoltmeter indicates $2.2 \times 10^{-10} V$ (per cps^{1/2} @ 5KC).

Over 50 catalog units include:

**amplifiers, pre-amps,
calibrators, integrators,
microvoltmeters**

*Get special combination
tech bulletin.*



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Created expressly for infrared signal processing where low noise characteristics are *imperative*.

Here is a comprehensive instrument line which can be applied effectively to other disciplines having similar low noise requirements.

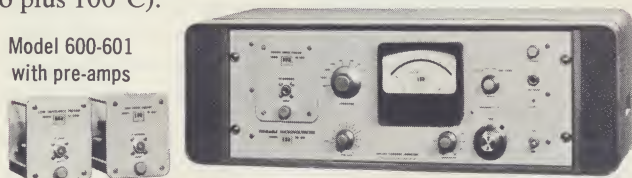


Low Noise Instruments

INFRARED INDUSTRIES, INC. Santa Barbara, Calif. (805) 684-4181

IRI provides a select line of amplifiers, pre-amps and microvoltmeters with unique sensing capabilities for low-noise, microvolt signal processing. For example, IRI Tunable Microvoltmeter measures signals .003 microvolts to 1 volt over a wide range of frequencies; a solid-state miniature (less than 1 cubic inch) low-noise pre-amplifier has extremely low-noise figure over a wide temperature range (1.1 to 1.8 db or less from minus 40°C to plus 100°C).

Model 600-601
with pre-amps

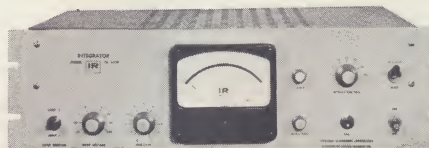


Broadband Amplifiers	Input Z	Freq. Resp.	Max. Gain	ENI V/cps ^{1/2}
603	40 megs	2 cps-200 kc	4000	1.2 x 10 ⁻⁸
604 B	35 megs	1 cps-300 kc	0.95	1.3 x 10 ⁻⁸
605	40 k ohms	2 cps-200kc	4000	1 x 10 ⁻⁸
Tuned Amplifiers				
600	←	depends on	pre-amp	→
601			pre-amp	→
			Tuning Range	Min. Band Width
600			10 cps-10 kc	40% center frequency
601			1 cps-1 kc	40% center frequency
Pre-Amplifiers	Input Z	Freq. Resp.	Max. Gain	ENI V/cps ^{1/2}
6001 }	1 meg	depends on		8 x 10 ⁻⁹
6011 }		tuned Amp.		
6002 A }	40 megs	depends on		1.2 x 10 ⁻⁸
6012 A }		tuned Amp.		
6003 }	15 ohms	depends on		3.2 x 10 ⁻¹⁰
6013 }		tuned Amp.		
6004 }	10-10 k ohms	depends on		2.2 x 10 ⁻¹⁰
6014 }		tuned Amp.		
				Noise Figure
606	10 megohms	1 cps-2 kc	10	≤ 1 db
615	5-25 ohms	10 cps-50' kc	50,000	≤ 2 db
616	25-100 ohms	10 cps-50 kc	50,000	≤ 2 db
617	100 k ohms	5 cps-1 mc	1000	≤ 2 db

Bias Supplies The IRI Bias Supplies use laboratory calibrated mirrored scale meters. Separate meters monitor both voltage and current and provide a continuous check of transducer operating resistance. Spring cushions at each end of the meter movement permit up to 500% accidental overload. Voltage ranges are continuously adjustable from 0 to 110% of full scale.

Model	Output Ranges (volts)	Output Current (microamps)	Maximum Source Resistance
501A	15, 50, 150, 500	10, 30, 100, 300, 1,000	65k shunted by 1μfd
502	10, 30, 100, 300, 1,000	10, 30, 100, 300, 1,000, 3,000, 10,000	128k shunted by 1μfd
503	±15, ±50, ±150, ±500 3 terminal output (+, common, —)	10, 30, 100, 300, 1,000	70k shunted by 1μfd

Integrator The IRI Model 602 eliminates the uncertainty of ordinary noise measurement. Readout occurs only after the selected integration time and provides a single-valued non-ambiguous noise reading. Repeatability of 1% is attainable. Integration times ranging from 2 to 120 seconds may be selected by a front panel control. Two input jacks are available with a selector switch. Front panel calibration controls.



Voltage Calibrator The IRI Model 225 is a precision source of true RMS voltages from 0.5 microvolt to 1.0 volt when used with an oscillator or signal generator. Vernier control allows accurate setting of the input signal. The temperature-compensated thermal meter assures true RMS voltage output regardless of input waveform. Operates from dc through 250kc, with output accuracy to within ±1% (DC to 10 KC). Ten-turn control is direct-reading in microvolts.



Request for Free Application Survey

Yes, and without obligation, I'd like to know more about the product lines checked:

- ☐ Temperature Measurement Instruments
☐ Low Noise, Low Voltage Instrumentation
☐ Collimators ☐ Blackbodies ☐ Scanners
☐ Infrared Test Labs ☐ IR Control/Alarm

But remember, I want facts, not "conversation."

My problem involves _____

Remarks _____

Name _____

Title _____

Company _____

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Phone _____ Ext: _____

☐ Demonstration ☐ More Information

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